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EX DOCKET NO

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/530,260	07/12/00	AKIMOTO		K 001560-381	
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HM12/0927 ' RONALD L GRUDZIECKI BURNS DOANE SWECKER & MATHIS				MARX,I	
				ART UNIT	PAPER NUMBER
PO BOX 1404 ALEXANDRIA VA 22313-14		04		1651	7
_				DATE MAILED	09/27/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Application No. 09/530,260 Applicant(s)

Examiner

Akimoto et al.

Office Action Summary

Irene Marx

Art Unit 1651



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE one MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2b) This action is non-final. 2a) This action is FINAL. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X Claim(s) 1-22 4a) Of the above, claim(s) ______ is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) ______ is/are rejected. is/are objected to. 7) L Claim(s) 8) Claims 1-22 are subject to restriction and/or election requirement. **Application Papers** 9) \square The specification is objected to by the Examiner. 10) The drawing(s) filed on ______ is/are objected to by the Examiner. $_$ is: a) \square approved b) \square disapproved. 11) The proposed drawing correction filed on 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) \square All b) \square Some* c) \square None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 15) Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s). 19) Notice of Informal Patent Application (PTO-152) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 20) Other: 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-4 drawn to a process making lipids containing arachidonic acid using mutants of various genera of microorganisms.
- II. Claims 5-10 drawn to a process making lipids containing dihomo-γ- linolenic acid using mutants of various genera of microorganisms
 - III. Claims 11, 12 and 17-22 drawn to a microbial lipid containing arachidonic acid,
 - IV. Claims 13-16 drawn to a microorganism belonging the various genera of fungi.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

First, the inventions of groups I and II, respectively III and IV do not match a permitted category as PCT Rule 13.2 does not provide for multiple methods or products in one category. Two distinct processes are being claimed in groups I and II, a process for the production of arachidonic and a process of making dihomo-γ- linolenic acid resulting in the production of distinct products. Two chemically distinct products are claimed in groups III and IV having distinct properties, i.e., a lipid containing arachidonic acid and a microorganism.

No common inventive concept is shared among groups I, II, III and IV since the microorganism as claimed is not required to obtain the products as claimed. An arachidonic containing lipid as claimed can be obtained by culturing a strain of wild type strain of a microorganisms followed by enrichment of arachidonic acid produced as adequately demonstrated by Shimada *et al.*, for example (See, e.g., Abstract). In addition, a technical relationship is lacking among the claimed inventions involving one or more special technical features because

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Kawashima *et al.* adequately demonstrates the cultivation of members of the recited genera having a defective desaturase at temperatures lower than the optimum growth. (See, e.g., Example 2).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (703) 308-2922. The examiner can normally be reached on Monday through Friday from 6:30 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn, can be reached on (703) 308-4743. The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service whose telephone number is (703) 308-0198 or the receptionist whose telephone number is (703) 308-1235.

Irene Marx

Primary Examiner

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